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DEPARTMENT: CIVIL ENGINEERING

MARTIC NUMBER: 19/ENG03/005

MAT 104 ASSIGNMENT

2 R Rabern -our Treasure Alongemi Es / Canal Engineexing 19/ENG03 KAY MAT 104 Assignment KS 03 71 83 V = 23 EN -il = 2005 32 1.t 10-3 W = 322 =-6.51132 K-3 do KA - Udx = Vdu 1-3 det dy 23 da da 12 (Start (322 - 200532 Rent I 213 (-651032 1 m re 11-2 (n. sin 3x ms 3 des 26 1 dr At B e27 1232 44 4dy d2u 1 abou that 100 x = e²ⁿ 12 13 dr = 2022 1E B the dr 2n n da en+ 2x e dy + 2ne 22 e22 de = Rean + d (2xe2) 8

12 P = 2en + 2en + 4xen let d2y = 402x + 4xe2x dx2 4 dy = 4 (e²ⁿ+ 2ne²ⁿ) => 4e²ⁿ + 8ne²ⁿ H 4y = 46xe2) => 4xe2x 54 Then $\frac{d^2y}{dx^2} - \frac{4dy}{dx} + \frac{4y}{4y} = 0$ $\frac{dx^2}{dx^2} - \frac{dx}{dx}$ $(4e^{2x} + 4xe^{2x}) - (4e^{2x} + 8xe^{2x}) + 4xe^{2x} = 0$ a Pretto : d²y - 4 dy + 4y dx² dx i Spx = O is correct 3) Alongenni Treasure Aghennion 19/EAG03/005 Civil Engineexing $\bigoplus_{y=e^{n}} \int e^{n} \sin 2x$ $y = e^{n} \quad \text{and} \quad dn = \sin 2x$ -З $dy = e^{x} dx$, $z = -\cos 2\pi$ 2 Svdry = ux - Judy Pinan = - Cosax + (l'rosax 2 l'costr = 1 (P,"castr 1 2 0 2 0 l'onstr = (ensintx - [ensintx ----2] 1 111 2 2 (e"sin 2n - e" sin 2n - e"cos2n - (e"sin 2n e .: 4

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$\frac{1et \int e^{2} \sin 2x + be - y}{y = e^{2} \sin 2x - e^{2} \cos 2x - 4 + c}$ $\frac{y = e^{2} \sin 2x - e^{2} \cos 2x - 4 + c}{4 - 2 - 4}$ $\frac{y = e^{2} \sin 2x - e^{2} \cos 2x + c}{5y = e^{2} \sin 2x - e^{2} \cos 2x + c}$	E OF
$y = 0 \sin 2x - 0 \cos 2x + 1$	-1-2
$y = \frac{e^{\pi} \sin 2x}{4} - \frac{e^{\pi} \cos 2x}{4} - \frac{4}{4} + c$ $y = \frac{e^{\pi} \sin 2x}{4} - \frac{e^{\pi} \cos 2x}{4} + c$	28.5
K3 H 4 Costx 10	- NOR
$\frac{4}{5y} = \frac{4}{2}$	
$\frac{5y}{y} = \frac{0.6102x}{5in2x} - 20\frac{0052x}{2052x} + C.$	
$\frac{y = 0 \sin 2x - 2e \cos 2x + 0}{5}$	The second
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